



ZF SYSTEMCARD™

*Network-ready
embedded systems computer
based on the OEMmodule or
the MMX586 Z-chipset*

The ZF SystemCard is a network-ready, full-function single board computer available with a 386, 486, or MMX586 CPU. The SystemCard features our award-winning OEMmodule™ Single Component Computer (386/486) or our low power, high performance MMX586 Z-chipset, along with 100Base-T or 10Base-T Ethernet and a display controller to create a compact single board computer designed for networked applications. The form factor of the SystemCard matches the footprint of a standard 5¼" hard disk, ideally sized for integration into a wide range of applications.

Complete Feature Set

The ZF SystemCard incorporates all the functionality of a standard PC motherboard with a number of enhancements and added features. The SystemCard includes serial and parallel I/O, digital I/O, floppy and IDE disk controllers, user-available flash, CompactFlash socket, external JEDEC byte-wide socket, PC/104 expansion bus, AT-compatible BIOS, pre-loaded Caldera DR-DOS (386 only), and optional General Software Embedded DOS-ROM, (386 only). Our patent pending Fail-Safe Boot™ ROM allows the user to easily reboot the system if the BIOS is corrupted or if the CMOS is inadvertently configured in a manner which locks the system in an unusable mode. The user can then simply reprogram the FLASH to recover the system.

The SystemCard 386/486 has an on-board VGA/SVGA controller for CRTs, TFT or STN flat-panel displays up to 800 x 600 of monitor output. The SystemCard MMX586 supports VGA/XGA/SVGA/SXGA; 64-bit graphics processing; 64-bit Windows accelerator; display compression technology; and monitor output of 1280 x 1024 x 24 @75Hz; and TFT output programmable to 1280 x 1024 of monitor output.

Quicker design cycle, shorter time-to-market

Easily integrate the widest selection of embedded hardware peripherals by attaching PC/104 expansion modules directly to the board via the PC/104 expansion bus. The PC/AT ROM-BIOS and DOS enable you to develop software on your desktop PC and then easily transfer your development work to the embedded system with little or no modification. Or you can develop your application software directly on the ZF SystemCard.

Based on the ZF OEMmodule Single Component Computer or our low power, high performance MMX586 Z-chipset, we combine the system hardware, software and solid state mass storage in a singlecompact 5¼" drive (EBX) form-factor.



We Make Computing Invisible

SYSTEMCARD FEATURE COMPARISON

<i>Feature</i>	<i>MMX586 Z-Chipset</i>	<i>486SX</i>	<i>386SX</i>
Processor	up to 166MHz	100MHz	40MHz
Bus	PCI and ISA	ISA	ISA
DRAM	0MB standard expandable to 160MB	18MB Standard expandable to 32MB via SODIMM	2MB standard expandable to 18MB via SODIMM
Display Support	<ul style="list-style-type: none"> · 64-bit graphics processing · 64-bit Windows accelerator · Display compression technology · Monitor output 1280 x 1024 x 24 @ 75Hz · TFT output programmable to 1280 x 1024; supports VGA/XGA/SVGA/SXGA 	VGA/ SVGA controller for CRT and TFT or STN flat-panel displays up to 800 x 600	VGA/ SVGA controller for CRT and TFT or STN flat-panel displays up to 800 x 600
Ethernet	100Base or 10Base-T	10Base-T	10Base-T
On-Board Flash	2MB	2MB	512K
Flash Expansion	<ul style="list-style-type: none"> · 1 CompactFlash Socket · 1 JEDEC byte-wide solid-state disk socket 	<ul style="list-style-type: none"> · 1 CompactFlash Socket · 1 JEDEC byte-wide solid-state disk socket 	<ul style="list-style-type: none"> · 1 CompactFlash Socket · 2 JEDEC byte-wide solid-state disk socket
Mass Storage	Floppy and IDE controllers	Floppy & IDE controllers	Floppy & IDE controllers
On-Board Touch Support	YES	NO	NO
Serial Ports	6 RS232 (1 configurable as RS485)	4 (1 configurable as RS485)	4 (1 configurable as RS485)
Parallel Ports	1	2	2
USB Ports	2	N/A	N/A
Digital I/O	N/A	12 lines	12 lines
Audio Support	Soundblaster Compatible	N/A	N/A
WD Timer	YES	YES	YES
Power	Requires 5VDC @ 2.2A	Requires 5VDC @ 1.3A	Requires 5VDC @ 1.3A
Fail-Safe Boot™ ROM	YES	YES	YES
PS2 Mouse Port	YES	N/A	N/A
AT Keyboard	YES	YES	YES
Development Kit	SCX-5MX-K-01	SCX-486-K-01	SCX-386-K-01

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